		Exploring Aerona	autics			
2002 Mathematics Content Standards						
Grade 5						
Activity/Lesson	State	Standards				
Fundamentals of Aeronautics (145-176)	NM	MA.5.5.M.2.1	Solve measurement problems using appropriate tools involving length, perimeter, weight, capacity, time, and temperature.			
Fundamentals of Aeronautics (145-176)	NM	MA.5.5.D.1.1	Construct, read, analyze, and interpret tables, charts, graphs, and data plots.			
Fundamentals of Aeronautics (145-176)	NM	MA.5.5.D.1.3	Display, analyze, compare, and interpret different data sets, including data sets of different sizes.			
Fundamentals of Aeronautics (145-176)		MA.5.5.D.2.1	Organize and display single-variable data in appropriate graphs and representations and determine which types of graphs are appropriate for various data sets.			
The Tools of Aeronautics	NM	MA.5.5.D.4.1	Determine probabilities through experiments and/or simulations and compare the results with mathematical expressions.			
The Resource Center	NM	MA.5.5.A.3.2.a	the number line to model the relationship between rational numbers and rational number operations			
Science of Flight	NM	MA.5.5.M.1.1	Understand properties (e.g., length, area, weight, volume) and select the appropriate type of unit for measuring each using both U.S. customary and metric systems.			
			Solve problems involving linear measurement, weight, and capacity (e.g., measuring to the nearest sixteenth of an inch or nearest millimeter; using ounces, milliliters, or pounds and kilograms) to the appropriate degree of			
Science of Flight	NM	MA.5.5.M.1.3	accuracy. Solve measurement problems using appropriate tools involving length, perimeter, weight,			
Science of Flight	NM	MA.5.5.M.2.1	capacity, time, and temperature. Formulate questions and identify data to be			
Science of Flight	NM	MA.5.5.D.1.6	collected to correctly answer a question. Determine probabilities through experiments			
Science of Flight	NM	MA.5.5.D.4.1	and/or simulations and compare the results with mathematical expressions. Understand properties (e.g., length, area,			
Integrating with Aeronautics	NM	MA.5.5.M.1.1	weight, volume) and select the appropriate type of unit for measuring each using both U.S. customary and metric systems.			
Integrating with Aeronautics	NM	MA.5.5.M.2.1	Solve measurement problems using appropriate tools involving length, perimeter, weight, capacity, time, and temperature.			
Intro to Aeronautics (109-123)	NM	MA.5.5.D.1.1	Construct, read, analyze, and interpret tables, charts, graphs, and data plots.			

			D: 1 1 1					
			Display, analyze, compare, and interpret					
Intro to Aeronautics			different data sets, including data sets of					
(109-123)	NM	MA.5.5.D.1.3	different sizes.					
			Company sat into repret and analyze data from					
			Construct, interpret, and analyze data from					
0 : 1:5 NA 11 1/404			graphical representations and draw simple					
Scientific Method(124-			conclusions using bar graphs, line graphs, circle					
144)	NM	MA.5.5.D.1.2	graphs, frequency tables, and Venn diagrams.					
			Display, analyze, compare, and interpret					
Scientific Method(124-			different data sets, including data sets of					
144)	NM	MA.5.5.D.1.3	different sizes.					
		Evaloring Agran	aquitian					
	Exploring Aeronautics 2002 Mathematics							
		Content Stand						
New Mexico Mathema	atice	Jonitent Stand						
Grade 6			+					
Activity/Lesson	State	Standards	+					
Activity/2000011	Otato	Starraaras	Select and use strategies to estimate					
Fundamentals of			measurements including angle measure and					
Aeronautics (145-176)	NM	MA.6.6.M.2.3	capacity.					
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Fundamentals of			Solve problems by collecting, organizing,					
Aeronautics (145-176)	NM	MA.6.6.D.1.5	displaying and interpreting data.					
			Conduct observations, surveys, experiments					
			and/or simulations, record the results in charts,					
Fundamentals of			tables, or graphs, and use the results to draw					
Aeronautics (145-176)	NM	MA.6.6.D.3.2	conclusions and make predictions.					
,			Select and use strategies to estimate					
Airplane Control(209-			measurements including angle measure and					
256)	NM	MA.6.6.M.2.3	capacity.					
			Conduct observations, surveys, experiments					
			and/or simulations, record the results in charts,					
The Tools of			tables, or graphs, and use the results to draw					
Aeronautics	NM	MA.6.6.D.3.2	conclusions and make predictions.					
			Apply various measurement techniques and					
			tools, units of measure, and degrees of					
			accuracy to find accurate rational number					
			representations for length, liquid, weight,					
Science of Flight	NM	MA.6.6.M.2.1	perimeter, temperature, and time.					
			Solve problems by collecting, organizing,					
Science of Flight	NM	MA.6.6.D.1.5	displaying and interpreting data.					
			Formulate and solve problems by collecting,					
Science of Flight	NM	MA.6.6.D.1.11	organizing, displaying, and interpreting data.					
			Select and justify the selection of measurement					
Integrating with			tools, units of measure, and degrees of					
Aeronautics	NM	MA.6.6.M.2.4	accuracy appropriate to the given situation.					
Scientific Method(124-								
144)	NM	MA.6.6.D.1.1	Use statistical representations to analyze data.					
Scientific Method(124-			Solve problems by collecting, organizing,					
144)	NM	MA.6.6.D.1.5	displaying and interpreting data.					
Scientific Method(124-			Formulate and solve problems by collecting,					
144)	NM	MA.6.6.D.1.11	organizing, displaying, and interpreting data.					

Scientific Method(124-			
144)	NM	MA.6.6.D.2.2	Describe the effects of missing or incorrect data.
- /	1		Conduct observations, surveys, experiments
			and/or simulations, record the results in charts,
Scientific Method(124-			tables, or graphs, and use the results to draw
144)	NM	MA.6.6.D.3.2	conclusions and make predictions.
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		Exploring Aeron	
		2002 Mathema	
N B4! B4 -41	4'	Content Stand	ards
New Mexico Mathema	atics		
Grade 7	State	Standards	
Activity/Lesson	State	Statitualus	Apply strategies and formulas to find missing
Fundamentals of			angle measurements in triangles and
Aeronautics (145-176)	NM	MA.7.7.M.2.1	quadrilaterals.
Actoriautics (143-170)	INIVI	IVI/\.\ 1 . 1 . IVI.\(\mathcal{L}\). I	Use appropriate technology to gather and
Fundamentals of			display data sets and identify the relationships
Aeronautics (145-176)	NM	MA.7.7.D.2.4	that exist among variables within the data set.
/ (CIOHAGIGS (170-170)	I AIVI	IVI/3.1.1.D.2.4	Solve problems involving rate, average speed,
Wings(177-208)	NM	MA.7.7.A.1.6	distance, and time.
Tools of	I VIVI	IVIA.T.T.A.T.O	Create scale models and use them for
Aeronautics(257-326)	NM	MA.7.7.A.3.1	dimensional drawings.
Actoriadiles(201-020)	I VIVI	IVIA.1.1.A.O.1	Convert fractions to decimals and percents and
Integrating with			use these representations in estimations,
Aeronautics	NM	MA.7.7.N.3.2	computations, and applications.
Intro to Aeronautics	INIVI	IVI/A.7.7.IV.O.Z	Describe how data representations influences
(109-123)	NM	MA.7.7.D.1.1	interpretation.
Scientific Method(124-		Wi/ (.7 .7 .D . 1 . 1	Describe how data representations influences
144)	NM	MA.7.7.D.1.1	interpretation.
,			Select and use appropriate representation for
Scientific Method(124-			presenting collected data and justify the
144)	NM	MA.7.7.D.1.2	selection.
			Analyze problems by identifying relationships,
			distinguishing relevant from irrelevant
			information, identifying missing information, and
Scientific Method(124-			selecting, collecting, and displaying appropriate
144)	NM	MA.7.7.D.1.13	data to address the problem.
		Exploring Aeron	
		2002 Mathema	
		Content Stand	ards
New Mexico Mathema	atics		
Grade 8			
Activity/Lesson	State	Standards	
			Describe how reader bias, measurement errors,
			and display distortion can affect the
Fundamentals of			interpretation of data, predictions, and
Aeronautics (145-176)	NM	MA.8.8.D.3.2	inferences based on data.
			Conduct simple experiments and/or simulations,
			record results in charts, tables, or graphs, and
Fundamentals of			use the results to draw conclusions and make
Aeronautics (145-176)	INM	MA.8.8.D.3.3	predictions.

	Solve multi-step problems that involve changes
ΜΔ 8 8 Δ 4 4	in rate, average speed, distance, and time.
W/A.O.O.A.4.4	Solve multi-step problems that involve changes
MA 8 8 A 4 4	in rate, average speed, distance, and time.
1717 (. O. O. J. (. + . +	Simulate an event selecting and using different
MA 8 8 D 1 5	models.
1717 (.0.0.D.1.0	Simulate an event selecting and using different
MA 8 8 D 1 5	models.
1417 (.0.0.D. 11.0	Conduct simple experiments and/or simulations,
	record results in charts, tables, or graphs, and
	use the results to draw conclusions and make
MA 8 8 D 3 3	predictions.
17.7 11.01.01.01.01.0	Simulate an event selecting and using different
MA 8 8 D 1 5	models.
	Generate, organize, and interpret real number
MA.8.8.D.2.2	and other data in a variety of situations.
	Formulate and solve problems involving simple
	linear relationships, find percents of a given
	number, variable situations, and unknown
MA.8.8.A.2.6	quantities.
	Recognize, classify, and discuss properties of all
	geometric figures including point, line, and
MA.8.8.G.1.1	plane.
	Use changes in scales, intervals, or categories
	to help support a particular interpretation of
MA.8.8.D.2.1	data.
	Interpret and analyze data from graphical
	representations and draw simple conclusions
MA.8.8.D.2.4	(e.g., line of best fit).
	Generate, organize, and interpret real numbers
MA.8.8.D.1.2	in a variety of situations.
	Develop an appropriate strategy using a variety
	of data from surveys, samplings, estimations,
MA.8.8.D.1.6	and inferences to address a specific problem.
	Interpret and analyze data from graphical
	representations and draw simple conclusions
MA.8.8.D.2.4	(e.g., line of best fit).
	Describe how reader bias, measurement errors,
	and display distortion can affect the
	interpretation of data, predictions, and
MA.8.8.D.3.2	inferences based on data.
	Conduct simple experiments and/or simulations,
	record results in charts, tables, or graphs, and
	use the results to draw conclusions and make
MA.8.8.D.3.3	predictions.
	Use probability to generate convincing
	arguments, draw conclusions, and make
MA.8.8.D.4.5	decisions in a variety of situations.
	MA.8.8.D.1.6 MA.8.8.D.2.4 MA.8.8.D.3.2 MA.8.8.D.3.3